SONY

VGN-SZ230P/B

VAIO® SZ Series Notebook PC

An inspiring fusion of mobility, power and style.

CUTTING-EDGE PERFORMANCE

The sleekly designed, lightweight VAIO® SZ Notebook optimizes mobility while offering superior performance on every front, starting with its use of Intel® Centrino® Duo mobile technology for advanced multi-tasking potential. It also boasts hardware solutions that will power you through your most demanding tasks, including a super-fast 5400rpm Serial ATA hard drive and advanced DDR2 memory for ultra high-speed computing.

PREMIUM PORTABILITY

The VAIO® SZ Notebook delivers intelligent mobile design while placing a priority on usability and performance. This slim, lightweight PC measures a mere 1" thin[15] , with a superb 13.3" widescreen display[11] with XBRITE™ LCD technology, long battery life[7] and a generous, comfortable keyboard.

UNIQUE AND INNOVATIVE FEATURES

Exclusive to VAIO® PCs, the revolutionary Hybrid Graphic System lets you set you switch between an internal graphics chip for optimal power consumption and an external graphics chip for even more robust performance. In addition to PC card support, it supports ExpressCard™, an emerging standard in smaller, faster PC card solutions, making it ideal for transfers of video and large files.

MESSAGING

Measuring merely 1" thin[15] , yet boasting a 13.3" widescreen display[11] with XBRITE™ technology, making it ideal for your mobile needs.
It's packed with features including Hybrid Graphic System which let you switch from internal graphics for battery efficiency and external graphics for robust performance.
Integrated camera with zoom utility and microphone lets your easily chat and video mail[12] with family, friends or business associates.
Wireless freedom is yours with integrated WWAN[17] , 802.11a/b/g wireless LAN[3] and integrated Bluetooth® technology[5] .
Ensure that your investment and data are safe with advanced security features like biometric fingerprint sensor and G-Sensor™ shock protection.
Create your own DVDs and CDs with DVD+R Double Layer/DVD±RW drive[4] .

The slim, lightweight VAIO® SZ Notebook delivers an inspiring blend of mobile design, cutting-edge performance, and contemporary style. With a 13.3" widescreen display[11] , integrated wireless WAN[17] technology, Intel® Centrino® Duo mobile technology, revolutionary Hybrid Graphic System and more, you can work faster and play longer. The VAIO® SZ Notebook is a "Windows Vista™ Capable" PC.

intel Centrino

intel Core Duo inside

Bluetooth

XBRITE™

G-SENSOR

DVD+ReWritable

Click to DVD

SonicStage

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VAIO® SZ Series Notebook PC

Specifications

General

Computer Type: Notebook
Type of Use: Ultra Portable
Action Buttons: S1, S2 (programmable) and WLAN/BT RF On/Off
Keyboard: QWERTY, 86 keys with 3mm stroke and 19.05mm pitch
Pointing Device: Electro-Static touch pad
Security: Biometric Fingerprint Sensor, Trusted Platform Module (TPM)

Hardware

Camera: Built-in Camera and microphone[12]

Processor

Type: Intel® Core™ Duo Processor T2400
Speed: 1.83GHz[1]
Front Side Bus Speed: 667MHz
L2 Cache: 2MB
Technology: Intel® Centrino® Duo Mobile Technology

Memory

Type: DDR2 SDRAM
Installed: 1GB (512MBx2) PC2-4200
Maximum: 2GB
Speed: 533MHz

Hard Drive

Capacity: 120GB[2]
Speed: 5400rpm
Interface: Serial ATA
Impact Protection: G-Sensor™ Shock Protection - Hard Disk Drive Protection

Optical Drive #1

DVD+R DL Write: 2.4 max.
DVD+R Write: 8x max.
DVD+RW Write: 4x max.
DVD-R Write: 8x max.
DVD-RW Write: 4x max.
CD-R Write: 24x max.
CD-RW Write: 16x max.
DVD±RW: Yes[4]
CD Read: 24x max.
DVD Read: 8x max.
DVD-R DL Write: 2x max.
DVD-RAM Read: 3x max.

Expansion Slots

Multimedia Card Reader: Supports Memory Stick DUO™ media with MagicGate® functionality
One ExpressCard™/34 Slot 5-in-1 Memory Card Adaptor (VGP-MCA20) supporting Memory Stick®, Memory Stick PRO™ , Secure Digital, xD-Picture Card, and MultiMediaCard (MMC)
One PCMCIA - Type II/Type I card slot with CardBus support

Audio

Sound System: Sony® Sound Reality™ - Audio Enhancer

Display

Screen or Display Technology: WXGA
Screen Size: 13.3"[11]
Resolution: 1280x800
XBRITE™ Technology: Yes

Graphics

Processor: NVIDIA® GeForce™ Go 7400 and Intel® Graphics Media Accelerator 950
Video RAM: 128MB Intel® Dynamic Video Memory Technology 3.0
Technology: Hybrid Graphic System, TurboCache™[13]
Chipset: Intel® 945GM
Interface: VGA out w/ Smart Display Sensor

Inputs and Outputs

Ethernet Port: 1
Headphone Jack: 1
i.LINK® Interface: 1 (4pin) i.LINK® connector (IEEE 1394)[6]
Memory Stick® Media Slot: 1
Microphone Input: 1
Port Replicator Connector(s): 1
USB Port(s): 2 (2.0 compliant)
VGA Output(s): 1
DC-In: 1

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)
Ethernet Speed: 10Base-T/100Base-TX
Modem Type: Integrated V.92/V.90 Modem (RJ-11)
Wireless LAN: Intel® PRO/Wireless 3945ABG Network Connection (802.11a/b/g)[3]
Wireless WAN: Integrated Wireless Wide Area Network (WAN) [17] accessing Cingular Wireless National EDGE Network with SmartWi™ technology (Wireless WAN and Wireless LAN radio do not transmit simultaneously)
Bluetooth® Technology: Integrated Bluetooth® Technology[5]

Power

Battery Type: Lithium-ion Battery (VGP-BPS2C)
Estimated Battery Life: 2.5-6.0 hours[7] (Standard Battery)
Power Requirements: 105W+10%

Software

Operating System: Microsoft® Windows® XP Professional Edition with SP2
Internet Services: America Online® 180-Day Trial - New Users Only
Anti-Virus and Recovery Software: Norton® Internet Security™ 2006 60-Day Subscription
TrendMicro™ Anti-Spyware 30-Day Trial
Iolo® System Mechanic 30-Day Trial
VAIO® Security Center
VAIO® Update software
VAIO® Recovery Wizard software
VAIO® Support Central
Supplied Software: Intuit® Quicken® 2006 New User Edition (previous Quicken users may require additional upgrade)
InterVideo® WinDVD®
Microsoft® Works 8.5 60-Day Trial Version of Microsoft® Office 2003[10] (Small Business Edition)
60-Day Trial Version of Microsoft® Digital Image[16]
Roxio® DigitalMedia SE
Sony® Original Software: SmartWi™ Connection Manager
Click to DVD® - DVD Creation
DVgate Plus™ - Digital Video
SonicStage Mastering Studio - Audio Mastering and Remastering
SonicStage® - Digital Music
VAIO Media™ - Network File Sharing
Image Converter - PSP™ Transfer
60-minute Trial Version of Wheel of Fortune®
60-minute Trial Version of Jeopardy®
Underworld - Pre-installed Movie

Service and Warranty Information

Limited Warranty: 1 Year Limited Warranty[8]
Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[9]
Online and Email Support: Support available from http://www.esupport.sony.com

Dimensions

Weight: 4.1 lbs. with standard battery (weight is approximate and may vary)
Measurements: 12.5"(W) x 0.9" - 1.3"(H) x 9.3"(D)

Supplied Accessories

Standard Lithium-ion battery (VGP-BPS2C)
AC adapter (VGP-AC19V10)
Memory Card Adapter (VGP-MCA20)[14]
Power Cord

Optional Accessories

Port Replicator (VGP-PRSZ1)
Additional Standard Capacity Battery (VGP-BPS2C)
Large Capacity Battery (VGP-BPL2C)
AC Adapter (VGP-AC19V10)
1GB Memory Expansion Module (VGP-MM1GA)
512MB Memory Expansion Module (VGP-MM512M)
Battery Charger (VGP-BC1)
Bluetooth® Wireless Mouse (VGP-BMS30)
Neoprene Notebook & AC Adapter (VGP-AMC1)
80GB[2] Portable Hard Drive (VGP-UHDM08)
40GB[2] Ultra-portable Hard Drive (VGP-UHDP04/N and VGP-UHDP04/R)

Color: Charcoal Black Magnesium Casing
UPC Code: 027242696419

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires compatible wireless LAN access point, sold separately. Internet connection may require fees.
4. DVD Media/Formats are not universally compatible.
5. Interoperability among Bluetooth® devices varies.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns and environmental conditions.
8. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2003 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Viewable area measured diagonally.
12. Broadband Internet service required along with third-party services which may require a subscription fee or other service fee.
13. NVIDIA® TurboCache™ technology combines the size and bandwidth of video memory and dynamically available system memory for optimal system performance.
14. Does not support Memory Stick media and Memory Stick PRO™ media using the MagicGate™ function or high-speed data transfer. Supports memory cards with capacitities up to 1GB. Does not support 5.0V SmartMedia media or the ID function of SmartMedia media with IDs. Does not support the SD Memory Card media copyright protection function. This adapter has been tested with only Sony® branded Memory Stick PRO™ media. Sony® branded Memory Stick PRO™ media is recommended for use with this adapter.
15. Measured at its narrowest point.
16. The Microsoft Digital Image Starter Edition 2006 60-Day Trial software included with this computer system is intended for evaluation purposes only. The software has been partially installed and you must complete installation of the software before you can use it. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-user options and operations.
17. Subscription with Cingular Wireless required. See www.sonystyle.com/cingular for complete offer details, price plans, service terms and conditions and coverage map. Call 1-888-739-VAIO (8246) for service activation.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate.

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